	Application No.	Applicant(s)		
Notice of Allowability	09/928,927	MALKOV ET AL.	VALKOV ET AL.	
	Examiner	Art Unit		
	Eva Yi Zheng	2634		
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this apport or other appropriate communication GHTS. This application is subject to	plication. If not include will be mailed in due o	d course. THIS	
1. This communication is responsive to <u>9/19/05</u> .				
2. The allowed claim(s) is/are <u>1-29</u> .				
3. ☐ Acknowledgment is made of a claim for foreign priority un a) ☐ All b) ☐ Some* c) ☐ None of the:				
Certified copies of the priority documents have				
Certified copies of the priority documents have				
Copies of the certified copies of the priority do	cuments have been received in this	national stage applicati	ion from the	
International Bureau (PCT Rule 17.2(a)).				
* Certified copies not received:				
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.				
4. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give	itted. Note the attached EXAMINER es reason(s) why the oath or declara	S AMENDMENT or NO tion is deficient.	OTICE OF	
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.				
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached				
1) hereto or 2) to Paper No./Mail Date				
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date				
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).				
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.				
Attachment(s)	5 			
1. Notice of References Cited (PTO-892)	5. Notice of Informal P		-152)	
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6.	(PTO-413), e		
3. ■ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date	8), 7. Examiner's Amendo	nent/Comment		
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. 🛛 Examiner's Stateme	nt of Reasons for Allov	vance	
or biological Material	9. Other			
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DETAILED ACTION

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Allowable Subject Matter

1. Claims 1-29 are allowed.

2. The following is an examiner's statement of reasons for allowance:

None of the prior art teaches or suggests soft bit computation in an equalizer of a receiver as the current application. In specific, the receiver comprise a reduced-state equalizer, wherein the received signal is input to a reduced-state trellis module and produce a first set of soft bits and hard decisions output; the received signal and hard decisions output also input to a gap-filler module; and the gap-filler module produces a second set of soft bits. The first set of soft bits are computed with finite non-zero delay, and the second soft bits are computed by zero-delay soft decision-making or decision-feedback equalization.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Eva Y Zheng whose telephone number is 571 272-3049. The examiner can normally be reached on M-F, 7:30 AM to 5:00 PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Chin can be reached on 571 272-3056. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Eva Yi Zheng Examiner Art Unit 2634

November 4, 2005

Stephen Chin Supervisory Patent Examine: Technology Center 2600